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Graduate School

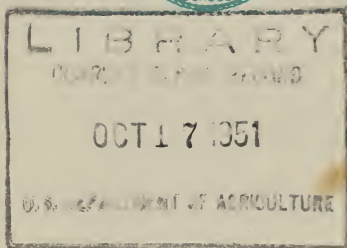
Fall Semester

Schedule of Classes

1950-51



30th Year



REGISTRATION SCHEDULE

TIME: Sept. 16, 9 to 4
Sept. 18-22, 9 to 6:30
Sept. 23, 9 to 4

**Late registration fee charged after
September 23**

PLACE: The Patio, Administration Bldg.
U. S. Department of Agriculture

Class Schedule and Supplement

to 1950-51 Bulletin

Complete details, including rules and regulations, policies, and course descriptions, are given in the **1950-51 Bulletin**, a copy of which may be obtained by writing or by calling in person. **Please do not telephone.** Counselors and training officers of your agency have a copy which you may examine.

Additional Courses: The School welcomes suggestions for courses not included in this Schedule and will make every effort to organize courses for which there is sufficient interest. Address suggestions to the Registrar.

Counseling on courses and programs of study is available at all times. Members of the School Staff are glad to assist students in planning their work.

Registration: begins September 16 (The Patio, Administration Building, Department of Agriculture). See schedule of hours on front cover. No one will be registered for credit after October 6, except with special permission of instructor and Registrar. Registration closes in a course when the maximum for that class is reached.

Late Registration: After September 23, a \$2.00 per course late registration fee will be charged.

Business office, Room 1031, South Agriculture Building, will be open from 9:00 a.m. to 6:20 p.m., Monday through Friday.

Textbooks may be purchased in Room 1041, South Agriculture Building, from 1:00 p.m. to 6:30 p.m., September 18 through September 22 inclusive, and from 1:00 p.m. to 7:00 p.m., September 25 through September 29 inclusive. Open Saturdays, September 16 and 23, from 9:00 a.m. to 4:00 p.m.

Refund of fees, less \$3.00 registration fee, may be granted in case of withdrawal before 6:20 p.m., October 6. After this date no refunds will be approved unless the student is compelled to leave Washington because of official governmental action.

Room schedules will be given at the time of registration.

Classes begin during week of September 25, end the week of January 15. All classes meet in the evening, unless otherwise indicated.

Explanation: Basic information about each course is given in the following order: course number, title, semester hours of credit, instructor, day and hour of class meeting, fee, and page of **1950-51 Bulletin** on which description may be found. The first half and the second half of a course are indicated by a and b respectively.

ACCOUNTING

- 352^a. **Principles of Accounting—First Half** (3) \$24 p. 77
 Section I Rowe M 6-9 and W 6-7
 Section II Marshall Tu 6-9 and Th 6-7
- 353^a. **Intermediate Accounting—First Half** (3) Hord
 M 6-9 \$24 p. 78
354. **Federal Government Accounting** (3) Mason W
 6-9 \$24 p. 78
420. **Advanced Accounting** (3) Acker W 6-9 \$27 p.
 78
645. **Federal Tax Accounting** (3) Moyer F 6-9 \$27
 p. 79
- 693^a. **Auditing** (2) Cooper M 6-8 \$18 p. 79
694. **Specialized Federal Accounting Systems** (3)
 Nolan and Specialists M 6-9 \$27 p. 79

ADMINISTRATION AND ADMINISTRATIVE TECHNIQUES

BUDGETARY AND FISCAL MANAGEMENT

101. **Business Mathematics** (2) Botts, Rhodes Th 6-8
 \$16 p. 47
110. **Federal Auditing Procedure** (2) To be arranged
 \$16 p. 48
112. **Federal Accounting Procedure** (3) Tierney Tu
 6-9 \$24 p. 48
116. **Federal Budgetary Procedure** (2) McWhorter,
 Struttman Tu 6-8 \$16 p. 49
360. **Hospital Business Administration I: Accounting,
 Statistics and Finance** (2) Spanier and Special-
 ists F 6-8 \$16 p. 70
635. **Budgetary and Financial Administration: Budget
 Formulation** (2) Roberts, Wheeler and Staff Th
 6-8 \$18 p. 71

GENERAL ADMINISTRATION

108. **Administrative Procedure** (2) Hickey M 6-8 \$16
 p. 47
117. **Records Management Procedure** (2) Luttrell,
 Lando Tu 6-8 \$16 p. 50
208. **Advanced Administrative Procedure** (2) Sherman
 Tu 6-8 \$16 p. 47
341. **American National Government** (2) Small W 6-8
 \$16 p. 67
344. **Introduction to Public Administration** (3) Brown
 W 6-9 \$24 p. 67
- 405^a. **Principles and Techniques of O&M Work** (2)
 Levine, Young W 6-8 \$18 p. 70
413. **Office Management** (2) Braum M 6-8 \$18 p. 51
420. **Procedure Systems and Methods of Developing
 Instructions** (2) Allsman, Hess M 6-8 \$18
 p. 51
422. **Systems for Reports and Forms Management** (2)
 Allsman, Barcan Tu 6-8 \$18 p. 52
450. **Principles of Scientific Management** (3) McKillop
 Tu 6-9 \$27 p. 67
515. **The Legislative Process** (2) Galloway W 6-8 \$18
 p. 69
550. **Internal Organization Patterns, Relationships
 and Procedures of Public Agencies; the Func-
 tion of Supervision** (3) P. Taylor Th 6-9 \$27
 p. 68
585. **Establishing and Administering O&M Work** (2)
 Stone, Luton W 6:15-8:15 \$18 p. 70
600. **Readings and Papers in Public Administration** (3)
 Thurston To be arranged \$27 p. 68
710. **Government Public Relations** (2) Webster and
 Specialists Th 6-8 \$18 p. 69

LEGAL ADMINISTRATION

320. **Introduction to Administrative Law and Pro-
 cedure** (2) E. Johnson M 6-8 \$16 p. 74
- 422^a. **Business Law** (2) E. Johnson Tu 6-8 \$18 p. 78
575. **Law of Federal Personnel Administration** (2)
 Koebel Th 6-8 \$18 p. 74

PERSONNEL MANAGEMENT

114. Federal Personnel Procedure (2) Mohagen M 6-8 \$16 p. 50
214. Advanced Federal Personnel Procedure (2) Peterson Tu 6-8 \$16 p. 50
305. Fundamentals of Accident Prevention (2) Jenkins M 6-8 \$16 p. 73
430. Public Personnel Administration (2) Couch M 6-8 \$18 p. 72
435. Selection and Placement (2) Hayes W 6-8 \$18 p. 72
445. Position Classification I—Elementary (2) Laxton, Findlay M 6-8 \$18 p. 73
446. Position Classification II—Advanced (2) Laxton, Findlay Tu 6-8 \$18 p. 73
580. Classification Administration (2) Buckley M 6-8 \$18 p. 73
565. Employee Relations and Employee Services (2) Kraus W 6-8 \$18 p. 73

PROCUREMENT AND PROPERTY MANAGEMENT

115. Federal Purchasing Procedure (2) Scammahorn M 6-8 \$16 p. 49
113. Federal Property Procedure (2) Lum Th 6-8 \$16 p. 49

ARTS

322. Survey of Art (2) Richards Tu 6-8 \$16 p. 111
321. Pencil Sketching and Freehand Drawing (2) Cadmus M-W 6-8 \$24 p. 111
323. Portrait Painting in Oil (2) Lazzari M-W 6-8 \$24 p. 111
320. Water Color Painting (2) Lyon M-Th 6-8 \$24 p. 111

BIOLOGICAL SCIENCES

250. Bacteriology¹ (4) Olson M-Th 6:30-9:00 \$32 and \$10 laboratory fee p. 18
518. New Developments in Insecticides (2) Bishopp and Specialists M 6-8 \$18 p. 20
610. Recent Developments in Plant Nutrition² (2) Parker and Specialists M 5:30-7:30 \$18 p. 20
700. Progress in the Field of Antibiotics (2) Irving, Fontaine and Specialists M 6-8 \$18 p. 21

LANGUAGES AND LITERATURE

ENGLISH AND LITERATURE

118. Practical English Usage (2) Samson Th 6-8 \$16 p. 23
119. Vocabulary Building (2) Murphy Th 6-8 \$16 p. 23
120. Government Letter Writing (2) Samson F 6-8 \$16 p. 51
222^a. English Composition (3) F. Miller Tu 6-9 \$24 p. 22
223. Descriptive English Grammar (2) Harman Th 6-8 \$16 p. 23
310^a. Survey of Great Plays (2) Venezky W 6:30-8:30 \$16 p. 23
330^a. Great Books (2) Ruppert M 6:30-8:30 \$16 p. 23

SPEECH

50. Speech Clinic (non-credit) Emery To be arranged \$30 p. 25
228. Fundamentals of Speech (2) Roser Th 6-8 \$16 and \$1.50 laboratory fee p. 24
232. Voice and Remedial Speech (2) Emery Tu 6-8 \$16 and \$1.50 laboratory fee p. 25
400. Effective Speaking (2) Beauchamp Tu 6-8 \$18 p. 25

¹ Given at Wilson Teachers College.

² Given at Plant Industry Station.

WRITTEN PRESENTATION

120. Indexing (1) Doyle M 6-7 \$8 p. 27
 225. Principles of Editing and Their Application (3)
 R. Miller and Specialists M-W 7:15-8:45 \$24
 p. 26
 226. Introduction to Official Writing (2) McClarren,
 Gilstrap M 6:30-8:30 \$16 p. 26
 235. Fiction Writing (2) Christie M 6-8 \$16 p. 24
 240. Audio-Visual Aids in Information and Education
 (2) Reid, Webster Th 6-8 \$16 p. 26
 280. Feature Writing (2) Christie W 6-8 \$16 p. 24
 320. Introduction to Public Information Media (2)
 Fitzpatrick Th 6:30-8:30 \$16 p. 26

FOREIGN LANGUAGES

- 253^a. Elementary French (3) Arnould Tu 6-9 \$24
 p. 29
 254^a. Intermediate French (3) Arnould W 6-9 \$24
 p. 29
 255^a. French Conversation (2) DeMarne W 6-8 \$16
 p. 29
 259^a. Elementary German (3) Lederer M-Th 6-7:30
 \$24 p. 30
 260^a. Intermediate German (3) Lederer W 6-9 \$24
 p. 30
 264. Scientific German—Economic Terms (2) Bauer
 W 6:30-8:30 \$16 p. 30
 270^a. Elementary Italian (3) Evangelist Tu 6-9 \$24
 p. 30
 295^a. Elementary Russian (3) \$24 p. 30
 Section I Schuler M 6-9
 Section II Tarakus W 6-9
 295^b. Elementary Russian (3) Tarakus M 6-9 \$24
 p. 30
 296^a. Intermediate Russian (3) Saharov Th 6-9 \$24
 p. 30
 299^a. Advanced Russian (3) Saharov Tu 6-9 \$24 p. 30
 300^a. Elementary Spanish (3) \$24 p. 31
 Section I Jaffe Th 6-9
 Section II Paniagua W 6-9
 301^a. Intermediate Spanish (3) Garcia-Tunon Tu 6-9
 \$24 p. 31
 302^a. Spanish Composition and Conversation (2) G.
 Supervia Th 6-8 \$16 p. 31
 574^a. Advanced Spanish Conversation and Literature
 (2) R. Supervia Th 6-8 \$18 p. 31

LIBRARY SERVICE

- 75^a. Introduction to Library Techniques (non-credit)
 Devereaux Tu 7-9 \$16 p. 28
 551. Libraries as Intellectual and Research Resources
 (1) Mohrhardt and Specialists Th 7-9 (Beginning
 September 27 and continuing for 8 weeks) \$10
 p. 28

MATHEMATICS AND STATISTICS

2. Review of Calculus (non-credit) Horton Th 6-9
 \$24 p. 37
 102. Algebra (3) Rhodes M-W 6-7:30 \$24 p. 38
 206^a. Calculus (4) \$32 p. 38
 Section I Greville M-W 6:15-8:15
 Section II¹ Pollin Tu-Th 4:15-6:15
 500^a. Advanced Calculus (2) Kusner Th 6:30-8:30 \$18
 p. 39
 610^a. Introduction to Nonlinear Mechanics (2) Lan-
 caster M 6-8 \$18 p. 39
 706^a. Analytical Mechanics (2) Cook Tu 6:45-8:45 \$18
 p. 39
 126^a. Introductory Statistics (2) \$16 p. 40
 Section I Larsen W 6:15-8:15
 Section II Purves Tu 6:15-8:15
 126^b. Introductory Statistics (2) Rauchschwalbe W 6-8
 \$16 p. 40
 127^a. Principles of Statistical Analysis (3) Stauber
 Tu-Th 6:15-7:45 \$24 p. 40

¹ Given at David Taylor Model Basin.

- 340^a. Introduction to Experimental Statistics (2) Hendricks Tu 6-8 \$16 p. 40
318. Machine Tabulation (2) Kaufman W 6:30-8:30 \$16 p. 40
- 400^a. Introduction to Mathematical Statistics (3) Tepping Tu-F 6:30-8:00 \$27 p. 41
- 735^a. Theory of Sample Surveys (2) Hansen, Hurwitz, Steinberg W 7:30-9:30 \$18 p. 41
- 752^a. Advanced Theory of Probability (3) Geisler W 6-9 \$27 p. 42
560. Theory of Electronic Digital Computing Machines (2) Cannon Tu 6:30-8:30 \$18 p. 42
- 723^a. Design and Interpretation of Experiments (2) Youden W 6-8 \$18 p. 42
535. Statistics of Bio-Assay (2) Cornfield, Lieberman M 6-8 \$18 p. 43
- 507^a. Statistical Methods in Engineering and Industrial Production (2) Pabst Th 6:30-8:30 \$18 p. 43
- 532^a. Survey of Linear Programing (2) Dantzig M 6-8 \$18 p. 43
- 727^a. Planning of Statistical Surveys (2) Jaffe, Mauldin Th 6:30-8:30 \$18 p. 43
435. Sampling in Social and Economic Surveys (3) Nisselson M 6:15-9:15 \$27 p. 44
- 520^a. Government Statistics (2) Ullman Tu 6:30-8:30 \$18 p. 44
021. Sampling and Statistical Inference (non-credit) Boddie, Deming Time to be arranged p. 44

PHOTOGRAPHY

70. Popular Photography (non-credit) Matthews W 7-9 \$16 p. 114
130. Art in Photography I (2) Ball Tu 6-8 \$16 p. 114
192. Fundamentals of Photography I (2) Koch M 6-8 \$16 p. 114
193. Practice of Photography I (2) Beales W 6-8 \$16 and \$3 laboratory fee p. 114
270. Color Photography I—Camera Techniques (2) Mohr Th 6:30-9:30 \$24 and \$12.50 laboratory fee p. 115
- 360^a. Portrait Photography (2) Purdy F 6-8 \$16 and \$4 laboratory fee p. 115
011. Photographic Roundtable (non-credit) p. 115

PHYSICAL SCIENCES

- 248^a. Organic Chemistry¹ (4) Williamson M-Th 6:30-9 \$32 and \$10 laboratory fee p. 55
- 400^a. Advanced Organic Chemistry (2) Bowen Th 6-8 \$18 p. 55
420. Physiography of Eastern United States (2) Aberdeen Tu 6-8 \$18 p. 56
- 522^a. Advanced Biochemistry (2) Johnston Th 6-8 \$18 p. 56
560. Soil Physics (2) Slater W 6-8 \$18 p. 58
452. Principles of Physical Metallurgy (2) Loring Tu 6:30-8:30 \$18 p. 58
310. Methods in Climatology (2) Thom Tu 6-8 \$16 p. 59
415. Applied Climatology (3) Jacobs M 6-9 \$27 p. 59
- 533^a. Hydrology (3) Kohler Th 6-9 \$27 p. 59
- 537^a. Weather Analysis and Forecasting (3) Gray, Winston Tu 6-10 \$27 and \$4 laboratory fee p. 60
- 153^a. College Physics¹ (4) Kilgore M-Th 6:30-9 \$32 and \$5 laboratory fee p. 60

PRACTICAL HOME ECONOMICS

230. Interior Decoration—I (1) Hensley W 6:30-7:30 \$8 p. 111
231. Interior Decoration—II (1) Hensley W 7:45-8:45 \$8 p. 111
234. Modern Homemaking for Employed Men and Women (2) Adelson and Specialists M 6-8 \$16 p. 113

¹ Given at Wilson Teachers College.

316. **Landscape Design—Small Property** (2) Gardner
M 6:30-8:30 \$16 p. 112
325. **Managing Personal Finances** (2) Larsen, Koebel
Tu 6-8 \$16 p. 86

SHORTHAND

89. **Review of Gregg Shorthand** (non-credit) Stephens
Tu-Th 6-7:30 \$24 p. 53
129. **Beginning Gregg Shorthand I** (3) Wilkey M-W-
F 6-7 \$24 p. 53
130. **Beginning Gregg Shorthand II** (3) Wilkey M-W-
F 7:10-8:10 \$24 p. 54
225. **Gregg Shorthand, 60 to 80 Words** (3) Morgan
Tu-Th 6-7:30 \$24 p. 54
226. **Gregg Shorthand, 80 to 100 Words** (3) Rowland
M-Th 6-7:30 \$24 p. 54
231. **Gregg Shorthand, 100 to 130 Words** (3) Harlin
M-Th 6-7:30 \$24 p. 54
335. **Introduction to Reporting—Gregg, 130 to 150
Words** (4) Foote M-Th 6:30-8:30 \$32 p. 54
336. **Reporting—Gregg, 150 Words and Up** (4) Paniczko
Tu-F 6:30-8:30 \$32 p. 54

SOCIAL SCIENCES

GENERAL ECONOMICS

- 201^a. **Principles of Economics** (3) Burroughs W 6-9
\$24 p. 84
335. **Introduction to Economics, Theory and Institu-
tions** (2) Allin Tu 6-8 \$16 p. 85
- 480^a. **Money and Banking** (2) Radford Th 6:30-8:30
\$18 p. 85
610. **Advanced Economic Analysis** (3) Parsons Tu 6-9
\$27 p. 85
728. **International Financial and Trade Policies** (2)
Zaglits F 6-8 \$18 p. 85
050. **Health and Medical Service Problems, Policies and
Programs** (non-credit) Klem, Anderson Th 6-8
p. 92

AGRICULTURAL ECONOMICS

207. **Economics of Farm Production** (3) Bachman M
6-9 \$24 p. 88
410. **Land Economics** (3) V. Johnson Th 6-9 \$27
p. 88
203. **Introduction to Marketing** (3) White Th 6-9
\$24 p. 89
- 414^a. **Economics of Marketing** (2) Southworth, Trelogan
W 6-8 \$18 p. 89
Lectures on Agricultural Marketing p. 90
- 530^a. **Methods of Price Analysis** (2) Been, Walsh W 6-8
\$18 p. 89
750. **Farm Price Policy** (2) Wells M 6-8 \$18 p. 91
- 407^a. **History of Agricultural Policy in the United States**
(2) Edwards Tu 6:10-8:10 \$18 p. 91

HUMAN RELATIONS

105. **Introduction to the Study of Human Relations** (2)
Longmore M 6-8 \$16 p. 94
210. **General Psychology** (3) Baker, Limburg Tu 6-9
\$24 p. 94
301. **Population of the World in Relation to Resources**
(2) To be announced Tu 6-8 \$16 p. 94
332. **Contemporary National Cultures** (2) Kennard
W 6-8 \$16 p. 95
400. **Introduction to General Semantics** (2) Saunders
W 7:30-9:30 \$18 p. 95
- 40^a. **General Semantics Workshop** (non-credit) Saun-
ders Th 7:30-9:30 (September 28 and once a month)
\$9 p. 95
421. **Rural Sociology** (3) Raper F 6-9 \$27 p. 95
441. **Conditions of Personality Growth** (2) Brunswick
M 6:30-8:30 \$18 p. 96
448. **Population Statistics I: Basic Sources and
Methods** (3) Siegel W 6:30-9:30 \$27 p. 97
515. **Sociology and Psychology of Group and Com-
munity Relations** (3) Ensminger, Taylor M 6-9
\$27 p. 97

718. **Rural Social Problems and Policies** (2) Staff,
Division of Farm Population and Rural Life (BAE)
Tu 6-9 \$18 p. 98
055. **Point 4 and Contemporary National Cultures** (non-
credit) Wilson and Elliott To be arranged p. 98

HISTORY AND INTERNATIONAL RELATIONS

250. **American History to 1865** (3) Rasmussen Th 6-9
\$24 p. 99
434. **Basic Factors in the Relations Between Nations**
(2) Spitzer Tu 6-8 \$18 p. 100
430. **Modern Russia** (2) Tereshenko M 6-8 \$18 p. 101

TRANSPORTATION

345. **Survey of Transportation** (2) Church Tu 6-8
\$16 p. 102
461. **Transportation Rates and Rate Determination** (2)
Dolch Th 6:30-8:30 \$18 p. 102
438. **Commercial Air Transportation** (3) Robinson W
6-9 \$27 p. 103
641. **Current Economic Problems in Transportation** (2)
Barton and Specialists M 6-8 \$18 p. 103

TECHNOLOGY

ENGINEERING

324. **Basic Mechanical Drawing I** (2) Wiemer Tu-F
6-8 \$24 and \$3 laboratory fee p. 112
340. **Architectural Drafting I** (2) Wiemer M-Th 6-8
\$24 and \$2.50 laboratory fee p. 112
342. **Architectural Drafting III** (2) Wiemer M-Th 6-8
\$24 and \$2.50 laboratory fee p. 112
- 305^a. **Elements of Statistical Drafting** (2) Guidry M
6-8 \$16 and \$2 laboratory fee p. 113
110. **Principles of Electricity** (2) Askegaard Th 6-8
\$16 p. 105
402. **Principles and Practice of Refrigeration** (2)
Garver Tu 6-8 \$18 p. 105
501. **Transmission and Distribution Systems for Area
Electrification** (3) Eardley Th 6-9 \$27 p. 105
- 702^a. **Electric Utility Engineering** (2) Jessel, Thomas
M 6-8 \$18 p. 106
515. **Steam-Electric Generating Plant Design** (2) To
be announced \$18 p. 106
560. **Fundamentals of Telephony** (2) Nolke Tu 6:30-
8:30 \$18 p. 106
- 542^a. **Mechanical Vibrations** (2) London Th 6:30-8:30
\$18 p. 106
- 700^a. **Analysis of Rigid Frames** (2) Amirikian Th 6-8
\$18 p. 106
- 310^a. **Aerodynamics** (2) Long W 6-8 \$16 p. 107
- 301^a. **Soil Mechanics** (3) Barber M 6-9 \$24 p. 107

SURVEYING AND MAPPING

215. **Route Surveying** (3) Rappleye, Parkin M 6-8
(Field work on 4 Saturdays as arranged) \$24 and
\$1 laboratory fee p. 108
120. **Introduction to Photogrammetry** (2) Faulds W
6:30-8:30 \$16 p. 109
212. **Photogrammetry I** (2) Higginson W 7-9 \$16
p. 109
220. **Aerial Photographic Interpretation** (3) Churchill
W 6-9 \$24 p. 109
222. **Cartography I—Technical Elements** (2) Everett
Tu 6-8 \$16 p. 110
430. **Theory of Map Projections** (2) O'Keefe W 6:30-
8:30 \$18 p. 110

LECTURES ON AGRICULTURAL MARKETING

A series of free lectures, open to the interested public,
given at the Department of Agriculture
Auditorium at 4:00 p.m.

See 1950-51 BULLETIN and special
announcements for details